

Timothy W Lyons

List of Publications by Year in descending order

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32
papers

8,917
citations

201674

27
h-index

414414

32
g-index

34
all docs

34
docs citations

34
times ranked

5234
citing authors

#	ARTICLE	IF	CITATIONS
1	The rise of oxygen in Earth's early ocean and atmosphere. <i>Nature</i> , 2014, 506, 307-315.	27.8	1,966
2	A Whiff of Oxygen Before the Great Oxidation Event?. <i>Science</i> , 2007, 317, 1903-1906.	12.6	822
3	Mo-total organic carbon covariation in modern anoxic marine environments: Implications for analysis of paleoredox and paleohydrographic conditions. <i>Paleoceanography</i> , 2006, 21, n/a-n/a.	3.0	802
4	A Stratified Redox Model for the Ediacaran Ocean. <i>Science</i> , 2010, 328, 80-83.	12.6	520
5	Contrasting molybdenum cycling and isotopic properties in euxinic versus non-euxinic sediments and sedimentary rocks: Refining the paleoproxies. <i>Chemical Geology</i> , 2012, 324-325, 19-27.	3.3	509
6	A critical look at iron paleoredox proxies: New insights from modern euxinic marine basins. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 5698-5722.	3.9	492
7	Ocean oxygenation in the wake of the Marinoan glaciation. <i>Nature</i> , 2012, 489, 546-549.	27.8	420
8	Proterozoic ocean redox and biogeochemical stasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5357-5362.	7.1	418
9	Late Archean Biospheric Oxygenation and Atmospheric Evolution. <i>Science</i> , 2007, 317, 1900-1903.	12.6	327
10	Sulfur isotopic trends and pathways of iron sulfide formation in upper Holocene sediments of the anoxic Black Sea. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 3367-3382.	3.9	249
11	A Late Archean Sulfidic Sea Stimulated by Early Oxidative Weathering of the Continents. <i>Science</i> , 2009, 326, 713-716.	12.6	241
12	Pervasive oxygenation along late Archaean ocean margins. <i>Nature Geoscience</i> , 2010, 3, 647-652.	12.9	233
13	Earth's oxygen cycle and the evolution of animal life. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8933-8938.	7.1	205
14	Modern iron isotope perspective on the benthic iron shuttle and the redox evolution of ancient oceans. <i>Geology</i> , 2008, 36, 487.	4.4	197
15	Carbon-sulfur-iron systematics of the uppermost deep-water sediments of the Black Sea. <i>Chemical Geology</i> , 1992, 99, 1-27.	3.3	181
16	Perspectives on Proterozoic surface ocean redox from iodine contents in ancient and recent carbonate. <i>Earth and Planetary Science Letters</i> , 2017, 463, 159-170.	4.4	172
17	Molybdenum isotope evidence for mild environmental oxygenation before the Great Oxidation Event. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6655-6668.	3.9	139
18	Coupled molybdenum, iron and uranium stable isotopes as oceanic paleoredox proxies during the Paleoproterozoic Shunga Event. <i>Chemical Geology</i> , 2013, 362, 193-210.	3.3	129

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19	Sulfur isotopes track the global extent and dynamics of euxinia during Cretaceous Oceanic Anoxic Event 2. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18407-18412.	7.1	127
20	Behavior of carbonate-associated sulfate during meteoric diagenesis and implications for the sulfur isotope paleoproxy. Geochimica Et Cosmochimica Acta, 2008, 72, 4699-4711.	3.9	123
21	A global perturbation to the sulfur cycle during the Toarcian Oceanic Anoxic Event. Earth and Planetary Science Letters, 2011, 312, 484-496.	4.4	122
22	Thallium isotopes reveal protracted anoxia during the Toarcian (Early Jurassic) associated with volcanism, carbon burial, and mass extinction. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6596-6601.	7.1	113
23	An iodine record of Paleoproterozoic surface ocean oxygenation. Geology, 2014, 42, 619-622.	4.4	111
24	An evaluation of sedimentary molybdenum and iron as proxies for pore fluid paleoredox conditions. Numerische Mathematik, 2018, 318, 527-556.	1.4	63
25	Molybdenum isotope chemostratigraphy and paleoceanography of the Toarcian Oceanic Anoxic Event (Early Jurassic). Paleoceanography, 2017, 32, 813-829.	3.0	59
26	Multiple negative molybdenum isotope excursions in the Doushantuo Formation (South China) fingerprint complex redox-related processes in the Ediacaran Nanhua Basin. Geochimica Et Cosmochimica Acta, 2019, 261, 191-209.	3.9	52
27	Molybdenum record from black shales indicates oscillating atmospheric oxygen levels in the early Paleoproterozoic. Numerische Mathematik, 2018, 318, 275-299.	1.4	31
28	Experimental determination of pyrite and molybdenite oxidation kinetics at nanomolar oxygen concentrations. Geochimica Et Cosmochimica Acta, 2019, 249, 160-172.	3.9	28
29	Reconciling evidence of oxidative weathering and atmospheric anoxia on Archean Earth. Science Advances, 2021, 7, eabj0108.	10.3	21
30	Geochemical Records Reveal Protracted and Differential Marine Redox Change Associated With Late Ordovician Climate and Mass Extinctions. AGU Advances, 2022, 3, .	5.4	17
31	An expanded shale $\delta^{98}\text{Mo}$ record permits recurrent shallow marine oxygenation during the Neoproterozoic. Chemical Geology, 2020, 532, 119391.	3.3	15
32	Iron and manganese shuttle has no effect on sedimentary thallium and vanadium isotope signatures in Black Sea sediments. Geochimica Et Cosmochimica Acta, 2022, 317, 218-233.	3.9	12